

CONFIDENTIAL

50X1-HUM

**COLD PUNCHING REPLACES DRILLING -- Moscow, Vestnik Mashinostroyeniya, Feb 52**

When the Ministry of Electrical Industry undertook the building of the TM-100/6 and other types of oil transformers (with thermosiphonic cooling tubes), the holes in the tank walls were made by drilling. A steel plate 4 millimeters thick was marked by means of a template and then cut into blanks. These blanks (in packs of 20) were placed on a radial drilling machine and the top one marked with a template. The holes were first drilled to a diameter of 28-32 millimeters and then redrilled to a diameter of 52 millimeters.

The TM-100/6 transformer has 41 holes and the TM-320/6 type has 173 holes in the tank. The amount of metal wasted by drilling is 2.7 and 9.3 kilograms per tank respectively.

Besides the high labor consumption of the method described, there are other disadvantages: difficulty of observing the rhythm of production; inaccuracy in the sizes of the holes, which is responsible for excessive clearance between the walls of the holes and the body of the various tubes, and consequently, for leakage in welded seams; the additional time spent on removal of burrs formed by drilling; and also a considerable consumption of large-diameter drills, since they cannot be used until fully worn because of the great depth of drilling.

To increase labor productivity and economy in production, the engineers designed a method of punching holes in tank walls on an eccentric single-frame 80-ton press with an adjustable moving slide bar and a stationary table. A special machine for feeding blanks to the press was also developed.

SHORTEN TRANSFORMER ASSEMBLY TIME -- Leningradskaya Pravda, 1 Mar 52

The transformer shop of the Leningrad Elektroapparat Plant has promised to fulfill its monthly quota 3 days ahead of schedule and to earn the title of excellent-quality shop.

The workers of the assembly shop have shortened the time required to assemble transformers by changing the mounting of screws. By skillful organization of work, most of the assembly shop workers have exceeded the plan $2\frac{1}{2}$ times, turning out high-quality production.

BUILD AUTOMATIC WELDING MACHINES -- Leningradskaya Pravda, 1 Mar 52

The Leningrad Elektrik Plant has completed five experimental machines for welding zinc boxes of three types sizes.

Radio industry enterprises are now tin-soldering the boxes by hand. In one shift a worker can solder about 1,000 boxes by hand. The new automatic machine can weld about 10,000 boxes in one shift and also save much tin.

PLEDGE TO BEAT 1952 PLAN, CUT COSTS -- Moscow, Pravda, 6 Mar 52

Ministry of Electrical Industry enterprises in Moscow have promised to complete the 1952 plan by 20 December, to exceed the plan for labor productivity by 1.3 percent, to save 5,274,000 rubles in excess of the plan by lowering production costs, and to save 1,854 tons of metal, 2,363 tons of ideal fuel, and 4 million kilowatt-hours of electric power.

Enterprises of the electrical industry in Moscow Oblast have pledged to fulfill the 1952 plan by 20 December, to exceed the plan for labor productivity by 1.5 percent, to save 1.5 million rubles in excess of the plan by lowering production costs, and to save 80 tons of ideal fuel and 1,260,000 kilowatt-hours of electric power.

- E N D -

.. 2 ..

CONFIDENTIAL